

In the Abstract:

Please replace the Abstract with the following rewritten Abstract:

The invention relates to a method and a system for device independent determination of coordinates of a point (P), displayed by means of a microscope, whereby, firstly, the device coordinates (x_1, y_1, z_1), for the displayed reference point (E1), in a device dependent coordinate system corresponding to the given object related reference coordinates (X_1, Y_1, Z_1) of at least one reference point in a DICOM coordinate system and a transformation rule (Φ) for the conversion of device dependent coordinates (x, y, z) into the coordinates (X, Y, Z) of the DICOM coordinate system are determined. Finally, to complete the device independent coordinate determination, the device coordinates (x_p, y_p, z_p) for a displayed point (P) are converted into device independent coordinates (X_p, Y_p, Z_p) of the DICOM coordinate system, by means of the determined transformation rule (Φ).

(Figure 2)

A method method for non-instrument-dependent determination of coordinates of a point imaged using a microscope includes determining, at object-related reference coordinates of at least one imaged reference point in a DICOM coordinate system, corresponding first instrument coordinates of the at least one imaged reference point in an instrument-dependent coordinate system. Using the object-related reference coordinates and the corresponding first instrument coordinates, a transformation rule for converting instrument-dependent coordinates into corresponding coordinates of the DICOM coordinate system is determined. Then, using the transformation rule, second instrument coordinates of an imaged point are converted into non-instrument-dependent coordinates of the DICOM coordinate system.